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FEDERAL GEOGRAPHIC DATA COMMITTEE

NGDA Theme
Community Meeting

Nov 8, 2018

1:00 – 3:00 PM ET

Dial-In:

703.648.4848 / Toll Free: 855.547.8255
Code: 79000#

Agenda

- ❖ Roll Call – Theme Representatives
- ❖ 2017-2018 Theme Reports Status
- ❖ NGDA Portfolio Reporting Timeline
- ❖ Reminder: FY18 Theme Plans
- ❖ Transitioning to ISO Metadata
- ❖ Geospatial Data Act of 2018: HR 302 and *the Metadata Initiative*
- ❖ COGO Report Card Update
- ❖ 2018 NGDA Web Services and Metadata Project
- ❖ NGDA Inventory & POC Updates
- ❖ Action Item Review
- ❖ Meeting Schedule
- ❖ Open Discussion

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Roll Call

2017-2018 Theme Report Status *As of 11/06/2018*

Theme	Strategic Plan	Implementation Plan Oct 17	Implementation Plan Oct 18
Address	Not Submitted	Not Submitted	Not Submitted
Biodiversity and Ecosystems	Posted	Not Submitted	Not Submitted
Cadastre*	Posted	Not Submitted	Not Submitted
Climate and Weather	Posted	Not Submitted	Not Submitted
Cultural Resources	Posted	Posted	Not Submitted
Elevation*	Posted	Posted	In Progress; est. by 11/9
Geodetic Control*	Posted	Posted	Not Submitted
Geology	Posted	Posted	Not Submitted
Governmental Units*	Posted	Posted	Submitted; Under Review
Imagery*	Posted	Posted	Not Submitted
Land Use Land Cover	Posted	Not Submitted	Not Submitted
Real Property	Posted	Posted	Not Submitted
Soils	Posted	Not Submitted	Not Submitted
Transportation*	Posted	Posted	Not Submitted
Utilities	Posted	Under Review by TL	Not Submitted
Water Inland*	Posted	Posted	Submitted; Under Review
Water Oceans and Coasts*	Posted	Posted	Not Submitted

+ New Theme; development in progress.
* Framework Themes

Contact Lorna Schmid for help completing reports: lorna@usgs.gov

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NGDA Portfolio Reporting Timeline

❖ **November**

    ❖ **Update FY18 Theme Strategic and Implementation Plans**

    ❖ Update NGDA List with new NGDA changes

    ❖ Update web service based on emails sent to Dataset Managers

    ❖ Review Geospatial Data Act

❖ **December**

    ❖ Review and Post Updated Theme Strategic Plans (if needed)

    ❖ Review and Post Theme FY18 Implementation Plans

    ❖ Focus on Theme Communities

    ❖ Review LMA Analysis and Recommendations Report

    ❖ Review NGDA Portfolio Summary Report

Reminder: FY18 Theme Plans

- ❖ **Action: Review/Update Theme Strategic Plan**
  - ❖ Review/update as needed: Goals, Objectives, and Actions
- ❖ **Action: Update Theme Implementation Plans to FY18**
  - ❖ **Existing Plans**
    - ❖ Align as needed: Goals, Objectives, and Actions with Theme Strategic Plan
    - ❖ Update Progress table from FY17 to FY18
    - ❖ Strategic and Implementation Plans located on each Theme Community
  - ❖ **New Plans**
    - ❖ Use Theme Implementation Plan Template with instructions: https://communities.geoplatform.gov/ngda-portfolio/wp-content/uploads/NGDA_Templates/Theme-Implementation-Plan-Template_final_20180313.docx
- ❖ **Deadline for submittal: October 31, 2018**

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Metadata (Publishing) Lifecycle Workflow
19115-1 Metadata Crosswalk
FGDC/GeoPlatform 19115-1 Profile

… the Metadata Initiative

Revisiting the Metadata Initiative

- ❖ Laying the Groundwork for Implementation of the Geospatial Data Act of 2018
  - ❖ *Aligning requirements and processes will be key to consistent implementation of standards, delivery of metadata and ingestion by the GeoPlatform*

- ❖ Initiative to Establish Foundational Documents
  - ❖ Mapping to ISO 19115-1
    - ❖ FGDC ISO 19115-1 Metadata Crosswalk
  - ❖ Establishing any necessary ISO 19115-1 profile elements
    - ❖ FGDC GeoPlatform ISO 19115-1 Profile
  - ❖ Ensuring consistent understanding of publishing requirements
    - ❖ Metadata Lifecycle, or Publishing, Workflow

The documents under review require the focus of the Metadata Working Group as their future state will provide the foundation for implementing the Geospatial Data Act and facilitate optimizing delivery of compliant metadata.

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Transitioning to ISO Metadata Based on ISO Summit Recommendations

Policy and Planning
- Develop plan of action for transition to ISO 19115-1/-2/-3
- Streamline reporting requirements (e.g., crosswalks)
- Support FGDC endorsement of ISO standards and profiles

Tools and Applications
- ISO Metadata Editor Registry (e.g., creation, validation)
- Consistency in content (e.g., URI's, DOI's vocabularies)
- Coordinate publishing with Data.gov and GeoPlatform.gov

Education and Outreach
- Enhance best practices for documentation of services, etc.
- Develop online "workbook" with examples
- ISO Forum and other training (e.g., email listserv)

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Geospatial Data Act of 2018: HR 302

❖ **FAA Reauthorization Act of 2018, Subtitle F – Geospatial Data covered in Sections 751 – 759C**

❖ **Approved by the Senate Oct 5, 2018**

❖ **FGDC will take on analysis and implementation requirements associated with the GDA**

   ❖ FGDC Tiger Team has been identified

❖ **Laying the Groundwork for Implementation of the Geospatial Data Act – Metadata Working Group Activities**

   ❖ Section 757. Standards.

      ❖ Establish standards (including metadata) that are consistent with international standards to the maximum extent practical

   ❖ Section 758. GeoPlatform.

      ❖ Include metadata for all geospatial data collected, directly or indirectly, by covered agencies

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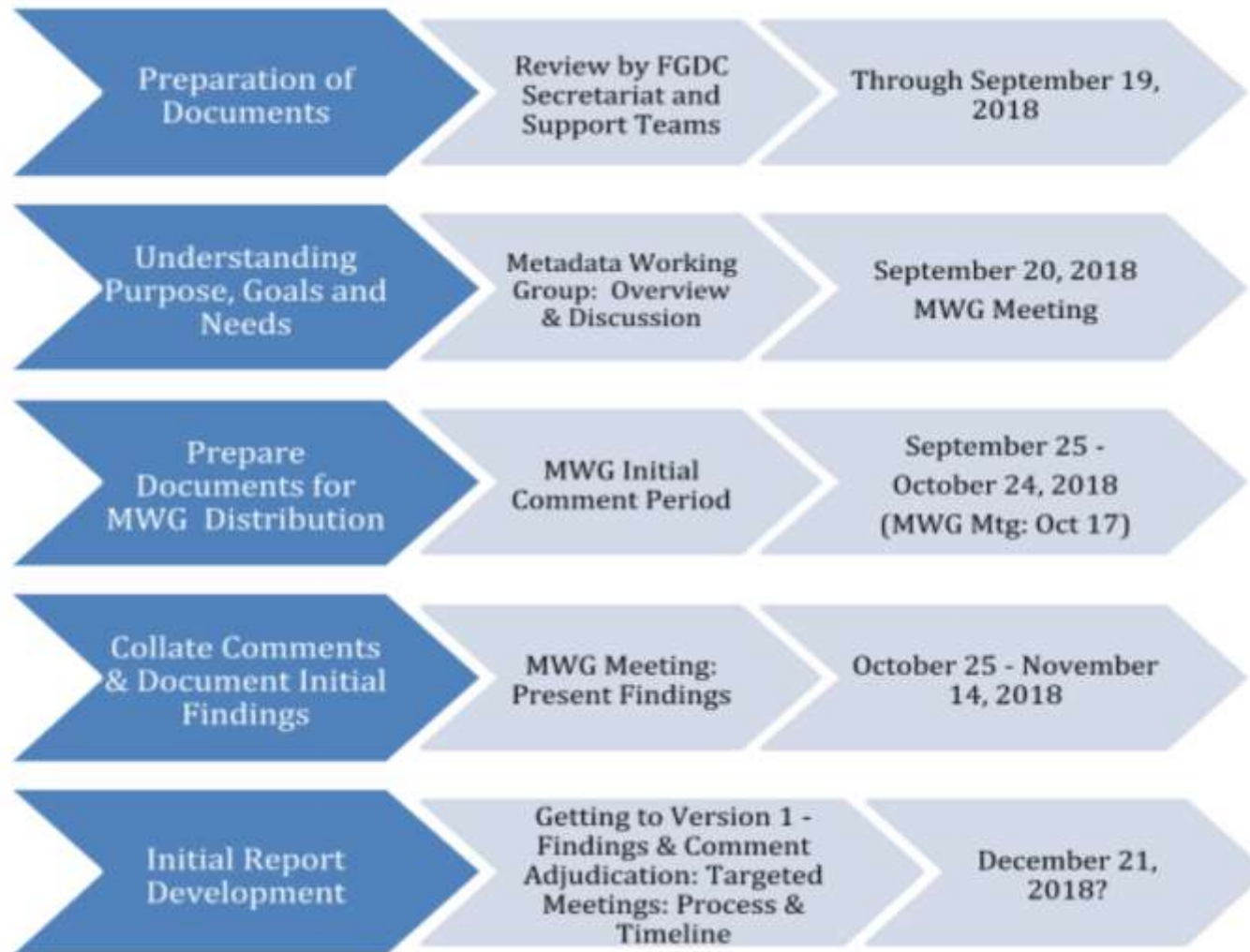FEDERAL GEOGRAPHIC DATA COMMITTEE

Geospatial Data Act of 2018: HR 302 Metadata Working Group Activities

❖ The initiative to achieve consensus on the three documents under review will provide critical foundation for the implementation of the GDA

- ❖ Clear understanding of metadata publishing lifecycle requirements will aid in ensuring that all metadata records will be made available through the GeoPlatform

- ❖ Consensus on mapping to ISO 19115-1 to ensure consistent implementation of established standards

- ❖ Consensus on any profile requirements and validation that the GeoPlatform meets metadata needs and requirements

Aligning requirements and processes will be key to consistent implementation of standards, delivery of metadata and ingestion by the GeoPlatform

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Timeline

Preparation of Documents	Review by FGDC Secretariat and Support Teams	Through September 19, 2018
Understanding Purpose, Goals and Needs	Metadata Working Group: Overview & Discussion	September 20, 2018 MWG Meeting
Prepare Documents for MWG Distribution	MWG Initial Comment Period	September 25 - October 24, 2018 (MWG Mtg: Oct 17)
Collate Comments & Document Initial Findings	MWG Meeting: Present Findings	October 25 - November 14, 2018
Initial Report Development	Getting to Version 1 - Findings & Comment Adjudication: Targeted Meetings: Process & Timeline	December 21, 2018?

Metadata (Publishing) Lifecycle Workflow

❖ **Purpose:** Understanding and Streamlining Metadata Processes

❖ **Action:**

  ❖ Confirm existing DSM→ Agency→ Department workflow

  ❖ Review/Comment on metadata workflow future end state
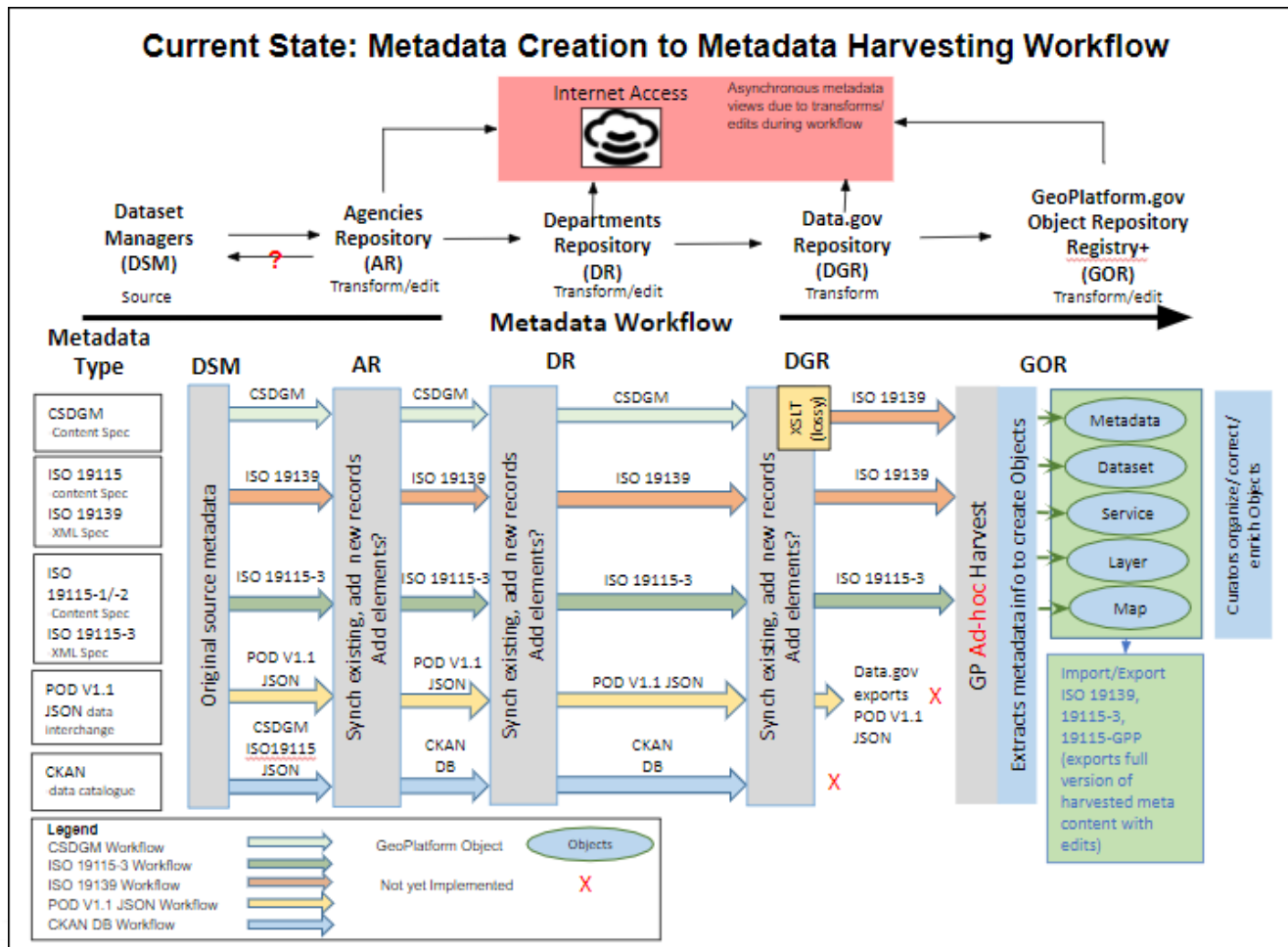
❖ **Why It Was Developed:**

  ❖ Understand Metadata publication lifecycle

  ❖ Consistent authoritative metadata throughout the metadata lifecycle

  ❖ Tools can be developed to consistently utilize metadata

  ❖ Consistent machine readability throughout the metadata lifecycle

❖ **Overview:**

  ❖ Documentation of current metadata lifecycle (publication) workflows and optimized long term end state
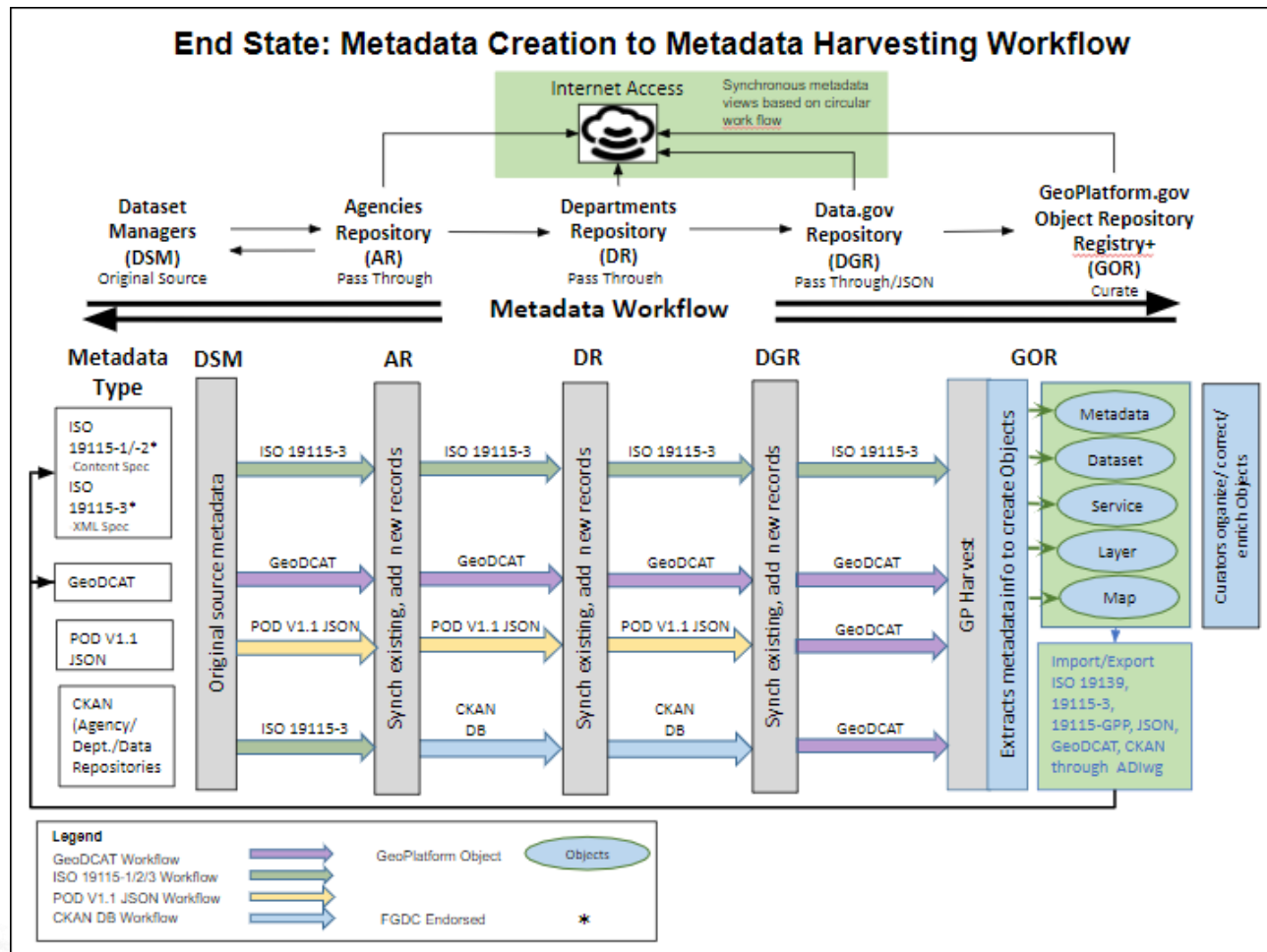
Metadata (Publishing) Lifecycle Workflow

❖ Current State - Draft under review

Metadata (Publishing) Lifecycle Workflow

❖ End State Goal – draft under review

End State: Metadata Creation to Metadata Harvesting Workflow

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ISO 19115-1 Metadata Crosswalk

❖ **Purpose:** Provide a Consistent Path to ISO 19115-1 Metadata

❖ **Action:** Review/Comment/Approve ISO Metadata Crosswalk (note 3 tabs)

❖ **Why It's Important:**
  - ❖ Consistent, interoperable metadata
  - ❖ Baseline for developing Profiles and Extensions
  - ❖ Tools can be developed to perform mass translation of legacy metadata
  - ❖ Consistent machine readability

❖ **Overview:**
  - ❖ Maps elements from CSDGM, 19115, and POD V1.1 to ISO 19115-1

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ISO 19115-1 Metadata Crosswalk

ISO 19115/19139 to ISO 19115-1 Crosswalk			
Conditionality: mandatory conditional optional essential*		arrow (->) is compound element container	
ISO 19115-1 Element	**ISO 19115-1/-3 XPath**	**CSDGM Element**	**CSDGM XPath**
MD_Metadata			
Metadata Contact -> *must include one or more of following:*	MD_Metadata/contact/CI_Responsibility/ ->	Metadata Contact -> *must include contact person or organization*	metadata/metainfo/metc/cntinfo ->
Individual Name	party/CI_Individual/name/CharacterString	*Person*	cntperp/contper/ (free text)
Organization Name	party/CI_Organization/name/CharacterString	*Organization*	cntorgp/cntorg/ (free text)
Position	party/CI_Individual.positionName/CharacterString	*Position*	cntorgp/cntpos/ (free text)
Organization logo	party/CI_Organization/logo/MD_BrowseGraphic/fileName/CharacterString		
Metadata Contact Role	/role/CI_RoleCode		
Metadata Contact Info ->	contactInfo/CI_contact/ ->		
Phone	phone/CI_Telephone/number/CharacterString	*Voice Telephone*	cntvoice/ (free text)
Address *may include any of the following:*	address/CI_Address ->		
Electronic Mail Address	electronicMailAddress/characterString	*Electronic Mail Address*	cntemail/ (free text)
		Metadata Contact Address -> *must include all of the following:*	metadata/metainfo/metc/cntinfo/cntaddr ->
		Address Type	addrtype/ (free text)
Delivery Point	deliveryPoint/characterString	*Address* (C=if address is available)	address/ (free text)
City	city/characterString	*City*	city/ (free text)
Administrative Area	administrativeArea/characterString	*State or Province*	state/ (free text)
Postal Code	postalCode/characterString	*Postal Code*	postal/ (free text)
	MD_Metadata/contact/CI_Responsibility/role/CI_Role		

+ ≡ | 2 19115 to 19115-1 ▾ | 38 CSDGM to 19115-1 ▾ | 3 POD to 19115-1 ▾

DRAFT FGDC/GeoPlatform ISO 19115-1 Profile

❖ **Action:**

    ❖ Establish a profile that aligns with the ISO standard to the fullest extent possible with consensus on any profile requirements

❖ **Why It's Important:**

    ❖ Persistent Uniform Resource Identifier (URI) throughout the metadata lifecycle

    ❖ Establish linkages and relationships between datasets, services, layers and maps

    ❖ Support the use of knowledge organization systems (KOS) and controlled vocabularies

    ❖ Facilitate machine readability throughout the metadata lifecycle

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COGO Report Card Update

❖ First COGO [Report Card on the NSDI](#) completed in 2015. Provided evaluation of framework Themes and overall NSDI status.

❖ Second Report Card assessment being finalized. Review will focus on status of Framework Themes (plus Address).

- • FGDC staff has coordinated with COGO leadership & evaluation teams

- • COGO is finalizing theme reviews & report. Theme reviews will be combined into consolidated COGO report.

- • Completion expected in Fall 2018

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Background: 2018 NGDA Web Services and Metadata Project

- ❖ **Goal:** Increased NGDA discoverability and greater access to web services and data download

- ❖ Prior action by Theme Community to review **FGDC NGDA Dataset List**
  - ❖ **Check / Correct metadata records**
    - Metadata titles and alternate titles
    - Keywords and thesaurus (check that they meet Guidelines)
    - Web service end points (add and/or check for broken links and update as needed)
    - Data download (add and/or check for broken links and update as needed)
  - ❖ **Update and republish NGDA metadata**
    - Include web service end points in accordance with NGDA Metadata Guidelines

- ❖ Review of all NGDA metadata by NGDA Portfolio Management Support Team

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Results: 2018 NGDA Web Services and Metadata Project

❖ Missing NGDA Metadata Records in Data.gov

  ❖ Dataset Managers have been contacted

NGDAID	Theme	NAME
1	Biodiversity	Bailey's Ecoregions And Subregions Of The United States, Puerto Rico, And The U.S. Virgin Islands - Direct Download
2	Biodiversity	Environmental Sensitivity Index (ESI) Data Viewer and REST Services for Atlases
11	Cadastre	Department of Defense Land Parcels and Sites
79	Gov't Units	EPA Facility Locations And Regional Boundaries
97	Gov't Units	United States Canada Boundary
116	Land Use	Monitoring Trends in Burn Severity
167	Oceans and Coasts	Maritime Limits and Boundaries of the United States of America

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Reminder: 2018 NGDA Web Services and Metadata Project

❖ NGDA Team reached out to Theme Leads and Dataset Managers in September with details of specific metadata issues identified related to individual NGDA

❖ Dataset Managers can review metadata on **FGDC NGDA Dataset List** to note any issues, make corrections or improvements

❖ Please contact the NGDA Team if you have any questions or need help ngdateam@fgdc.gov

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NGDA Inventory & POC Updates

❖ Theme Executive Champion Change

NGDA Theme		
None		

❖ Theme Lead Change

NGDA Theme	New Theme Co-Lead	Previous Theme Co-Lead
Water - Inland	TBD	Rebecca Anderson

❖ Dataset Manager Changes

NGDA Dataset Name	Theme	New Dataset Manager	Previous Dataset Manager
National Hydrography Dataset	Water-Inland	TBD	Rebecca Anderson

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Action Item Review - Past Due and Current

In Progress Actions			
Topic	**Responsible Party**	**Description**	**Status**
FY17 Theme Implementation Plan (TIP) Submission	Theme Leads	Theme Leads to submit Theme Implementation Plans by 10/31/17 including 2017 Progress Summary Table.	**Past Due:** Themes that still need to submit a plan (**Biodiversity and Ecosystems, Cadastre, Climate and Weather, Land Use Land Cover, Soils**): Coordinate with Lorna Schmid (ngdateam@fgdc.gov) with questions or estimated submission date.
FY18 Theme Strategic and Implementation Plan Updates	Theme Leads	Theme Leads to review and update Theme Strategic and Implementation Plans by 10/31/18 including the Progress Summary Table.	**Past Due:** All Themes begin review and update of TSP and TIP for FY18. Reach out to the NGDA team for assistance as needed (ngdateam@fgdc.gov).

Action Item Review - Current

In Progress Actions			
Topic	**Responsible Party**	**Description**	**Status**
NGDA Metadata Improvement	Theme Leads, Dataset Managers, NGDA Team	Dataset Managers and Theme Leads to review links to respective NGDA metadata records for accuracy: https://www.fgdc.gov/ngda-reports/NGDA_Datasets.html	Ongoing: Emails were sent in September to Dataset Managers and Theme Leads with specific findings of Web Services and Metadata Project; DSM are reviewing metadata records for <u>Titles, keywords, web services, data download and metadata formatting per the findings.</u> **Action:** DSM and TL please respond to email with status or any questions you may have.
NGDA Proposed Changes	Dataset Managers Theme Leads	Dataset Managers and Theme Leads to review and approve NGDA changes.	**In Progress:** Once NGDA changes are finalized and reported to the NGDA Team, the recommendations will be forwarded through FGDC for final approval.

Action Item Review - Current

In Progress Actions			
Topic	**Responsible Party**	**Description**	**Status**
NGDA Metadata Improvement	Dataset Managers Theme Leads	Dataset Managers and Theme Leads to review respective NGDA metadata records. https://www.fgdc.gov/ngda-reports/NGDA_Datasets.html	**In Progress:** Dataset Managers and Theme Leads reviewing metadata records for <u>Titles, keywords, web services, data download and metadata formatting</u>
COGO Report Card Status	Theme Leads FGDC OS	COGO Report Card evaluations are in progress or complete for the NGDA Themes. Once a draft report is available from COGO, FGDC and Theme Leads may be able to review and provide feedback prior to publication.	**In Progress:** COGO Report Card draft theme evaluations have been completed, and the draft Theme evaluations were provided to FGDC in September for review and comment. Approx. 95% of Theme Lead comments and corrections were integrated by COGO into the report. **Action:** Please notify John Mahoney (jmahoney@usgs.gov) and Lorna Schmid (lorna@usgs.gov) with updates on any contact with COGO Teams.

2018 Theme Lead Meeting Schedule

Date	Time (Eastern)
Jan 11 (Thursday)*	1:00 - 3:00 ET
Feb 6 (Tuesday)	11:00 - 1:00 ET
Mar 1 (Thursday)	1:00 - 3:00 ET
Apr 3 (Tuesday)	11:00 - 1:00 ET
May 3 (Thursday)	1:00 - 3:00 ET
June 5 (Tuesday)	11:00 - 1:00 ET
July 12 (Thursday)*	1:00 - 3:00 ET
Aug 7 (Tuesday)	11:00 - 1:00 ET
Sept 6 (Thursday)	1:00 - 3:00 ET
~~Oct 2 (Tuesday)~~	~~11:00 - 1:00~~ ET (Canceled)
Nov 8 (Thursday)*	1:00 - 3:00 ET
Dec 4 (Tuesday)	11:00 - 1:00 ET

Denotes date adjustment due to holiday or other conflict

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Open Discussion

Next Meeting:

December 4, 2018

11:00 AM – 1:00 PM ET